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**From:** Paddack, Mark [mpaddack@eaest.com]  
**Sent:** 3/7/2019 9:25:39 PM  
**To:** Shewmake, Kenneth [shewmake.kenneth@epa.gov]  
**CC:** Snyder, Jay [jsnyder@eaest.com]  
**Subject:** RE: Draft SAP for Lane plating table and figures

Mr. Shewmake:

I have another call tomorrow afternoon from 1:00 to 2:00, but am free to attend a call tomorrow. Regarding the one comment regarding collecting geotechnical parameters at all boring locations, I have copied Jay Snyder, EA's chief Geologist, on this matter. In the meanwhile, I have provided responses below for us to discuss on the call tomorrow.

Thank You,  
Mark Paddack  
EA Project Manager

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**From:** Shewmake, Kenneth [mailto:shewmake.kenneth@epa.gov]  
**Sent:** Thursday, March 07, 2019 2:18 PM  
**To:** Paddack, Mark  
**Subject:** FW: Draft SAP for Lane plating table and figures

Mark,

I received the following comments from Alethea on the figures and tables you sent out. She is the EPA human health risk assessor. I would like to give you a call tomorrow to discuss this and progress on the CSMTM and SAP. Do you have a time that works for you?

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**From:** Tsui-Bowen, Alethea  
**Sent:** Thursday, March 07, 2019 8:57 AM  
**To:** Shewmake, Kenneth <shewmake.kenneth@epa.gov>  
**Subject:** RE: Draft SAP for Lane plating table and figures

Hi Kenneth,

As we discussed yesterday, here are my comments on the "Soil Sample Design Matric Tables\_4Mar19.pdf":

1. Soil location DSB-1, DSB-2, DSB-3, DSB-4, DSB-6, DSB-7, DSB-9, DSB-10, DSB-11 and DSB12 showed 1 sample at the total depth of 15 ft. Can you confirm if one composite sample is going to be collected between 2 to 15 ft bgs, and these are the locations and depth that TCEQ requested for composite sampling?

The total depth sample is intended to represent the total depth of the boring. Based on required sample volume, this is typically the bottom two to three feet of the boring, and it is used to determine whether or not impact has migrated down to the boring termination depth. TCEQ did not request composite sampling; they commented on the prior use of a grid system with five part composites collected from each grid for each sampled interval, versus the collection of soil samples at discrete sample locations (the latter of which EA has been scoped to complete). The total depth sample interval of 15 feet was the scope provided to EA during the 6 September 2018 scoping call. If EPA prefers a composite sample from 2 to 15 feet, EA will adjust the table accordingly.

2. All soil samples are not analyzed for geotechnical parameters which will be necessary for site cross-section information to indicate the soil characteristics and the extent of contamination. Pls discuss with the contractor if geotechnical parameters should be collected.

EA was scoped to collect soil cores from the three monitoring well locations for the interval representing the groundwater interface, and have these samples analyzed by a geotechnical laboratory. This is a normal practice and the data is used to determine soil parameters, and can also be used in calculating aquifer parameters. To my knowledge, EA has never been requested to collect geotechnical parameters at all soil boring locations. Because EA does not have scope to meet this request, this is something that can be discussed/considered as part of the Phase 2 RI, if deemed necessary.

3. In the soil investigation QC samples tables, please delete "0" in cells that no samples are required. This request is to keep consistencies across all tables.

The tables will be revised as requested.

I have no comments on the figures.

Tks & Rgds,  
Alethea Tsui-Bowen

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**From:** Shewmake, Kenneth

**Sent:** Tuesday, March 05, 2019 4:47 PM

**To:** Rebecca Storms <[Rebecca.Storms@Tceq.Texas.Gov](mailto:Rebecca.Storms@Tceq.Texas.Gov)>

**Cc:** Tsui-Bowen, Alethea <[Tsui-Bowen.Alethea@epa.gov](mailto:Tsui-Bowen.Alethea@epa.gov)>; Rauscher, Jon <[Rauscher.Jon@epa.gov](mailto:Rauscher.Jon@epa.gov)>; Pereira, Stephen <[pereira.stephen@epa.gov](mailto:pereira.stephen@epa.gov)>; Malott, Vincent <[malott.vincent@epa.gov](mailto:malott.vincent@epa.gov)>

**Subject:** FW:

Here are some revised figures and a table from our contractor based on comments on the Draft SAP for Lane plating  
. Let me know if you have any comments.

Kenneth Shewmake  
US Environmental Protection Agency  
Environmental Scientist  
RPM Lane Plating

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**From:** Paddack, Mark <[mpaddack@eaest.com](mailto:mpaddack@eaest.com)>

**Sent:** Monday, March 04, 2019 1:50 PM

**To:** Shewmake, Kenneth <[shewmake.kenneth@epa.gov](mailto:shewmake.kenneth@epa.gov)>

**Subject:**

Mr. Shewmake:

As I had mentioned, attached are figures mark-ups showing sample locations that were shifted per EPA and TCEQ comments. once you have the chance to look these over, please let me know your thoughts, and I get formal revisions completed. If you recall, TCEQ also had two separate comments regarding sampling depths for soil borings, and as we

discussed during the 20 February 2019 call, I shifted some of the from a portion of the boring location where the 2 to 5 feet interval will be sampled, versus the 15 feet as originally planned. I have included a copy of the revised Soil Sample Design Matrix tables that illustrates which soil boring locations will be sampled down to a total depth of 15 feet versus 15 feet.

Please let me know if you have questions or comments concerning this matter.

Thank You,  
Mark Paddack  
EA Project Manager